

# CESSNA -172SP LYCOMING : PRE FLIGHT CHECKLIST PREPARATION

1.	Aircraft Documents*	Checked
2.	Weather	Suitable
3.	Baggage	Stowed
4.	Weight & C of G	Within Limits
5.	Navigation	Planned
6.	Navigation Equipment	On Board
7.	Performance & Range	Computed & Safe

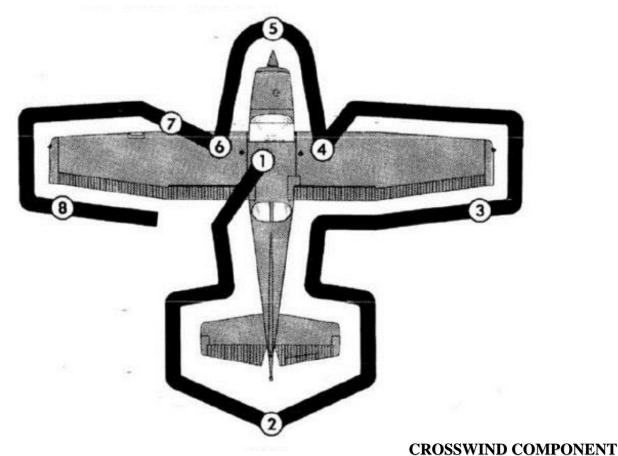
\*Documents to be Carried: C of R, C of A, ARC, CRS, Noise Certificate, Flight Crew license, JLB, Operations Manual, MEL, POH, Cockpit and Emergency Check List, Aeroplane search procedure checklist, G-1000 Cockpit Reference guide, Route guides, Area Map, Weight Schedule, Load and Trim Sheet.

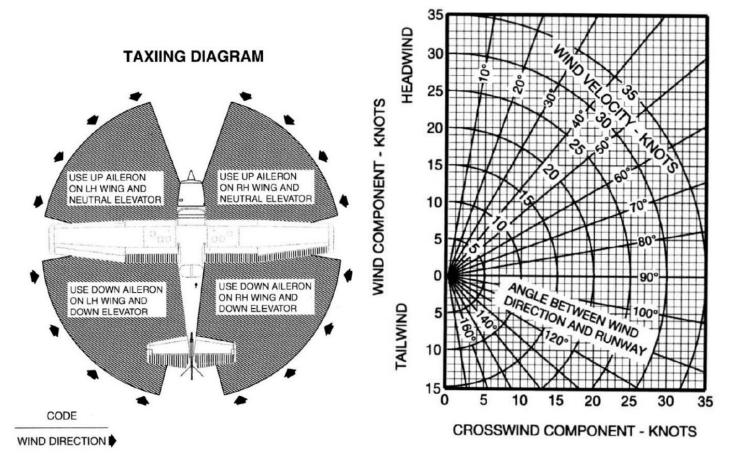
Around aircraft no fuel / oil spillage. Chocks & fire Extinguisher in position. Area behind aircraft & taxi path clear. Remove pitot cover.

#### **CABIN**

1. Pitot Cover	REMOVED
2. Control Wheel Lock	REMOVED
3. Parking Brake	SET
4. MAGNETOS Switch	OFF
5. AVIONICS BUS 1&2	OFF
6. MASTER Switch (ALT & BAT)	ON
7. PFD	ON (Wait for PFD to Initialise)
8. FUEL QTY(L & R)	CHECK
9. LOW FUEL (L & R) Annunciators	NOT SHOWN
10. Oil Pressure Annunciators	SHOWN
11.LOW Vacuum Annunciator	SHOWN
12. Engine Hrs & Hobbs	NOTED
13. AVIONICS BUS 1	ON (Front Avionics Fan ON)
14. AVIONICS BUS 1	OFF
15. AVIONICS BUS 2	ON ( Rear Avionics Fan ON )
16. AVIONICS BUS 2	OFF
17. Flaps	FULLY EXTENDED
18. PITOT Heat Switch	OFF
19. PITOT Heat Switch	ON for 30 secs then OFF
20. LOW Volts Annunciator	SHOWN
21. MASTER Switch (ALT & BAT)	OFF
22. ALT Static AIR Valve	Full In (OFF)
23. Cabin Heat & Cabin Air	OFF
24. Elevator Trim	Set for Take-Off
25. FUEL Selector Valve	BOTH
26. FUEL Shut-off Valve	PUSH FULL IN
27. Fire Extinguisher	CHECK Pointer in Green

## \*Chimes Aviation Academy \*







### CESSNA -172SP LYCOMING : PRE FLIGHT CHECKLIST EXTERNAL CHECKS

#### **EMPENNAGE**

EMI EMINOE	
<ol> <li>Baggage Door</li> <li>Tail Tie Down</li> <li>Elevator</li> <li>Elevator Trim Tab</li> <li>Antennas</li> </ol>	Check Locked Detached Check Freedom of Movement Check for Security Check for Security
<b>RIGHT WING Trailing Edge</b>	
6. Flap	Check for Security & Condition Check Freedom of Movement
RIGHT WING	
8. Wing Tie Down 9. Landing / Taxi Lights 10. Right Tyre 11. Fuel Drains (5) 12. Fuel Quantity 13. Fuel Filler Cap	Detached Check for Security Check Cut, Creep, Pressure Sample for Water & Sediments Check visually ≤ fuel filler marking Check Security, Vent Clear
NOSE	
14. Reservoir Tank	Sample for Water & Sediments Sample for Water & Sediments Sample for Water & Sediments Check Dipstick (5-8 Quarts) Clear of Obstructions Check for Cuts, Nicks, Security Check for Dust & Blockage Strut 3.5", No leaks Check Cut, Creep, Pressure Check Clear
LEFT WING	
24. Fresh Air Inlet 25. Fuel Quantity (5) 26. Fuel Filler Cap 27. Fuel Drains 28. Left Tyre	Check condition Check visually, ≤ fuel filler marking Check Security, Vent Clear Sample for Water & Sediments Check Cut, Creep, Pressure
LEFT WING Leading Edge	
29. Fuel Vent	Check for Blockage Check for Blockage Detached Check for Security
<b>LEFT WING Trailing Edge</b>	
33. Aileron	Check Freedom of Movement

34. Flap .....

Check for Security & Condition



BEFORE START	
1. Pre-flightCOMPLETE	Increase RPM to 2000 and bring back to idle
2. Passenger Briefing COMPLETE	twice, Check for smooth engine operations.
3. Seats & Seat BeltsADJUST & SECURE	4. Oil Pressure StableGREEN
4. BrakesTEST & SET	
5. Circuit BreakersCHECK IN	TAXI
6. Electrical EquipmentOFF	1. Taxi PermissionRECEIVED
7. Avionics BUS 1 & BUS 2OFF	2. Altimeters(PFD Baro & St By)SET QNH
8. St By BattTEST 10" Green Lt ON	3. ChocksWAIVE OFF
9. St By BattARM Verify PFD ON	4. Parking BrakeRELEASE
10. EIS	5. Taxi, Landing lightON
11. BUS E VoltsMin 24 VOLTS	6. BrakesTEST
12. BUS M Volts Below 1.5 VOLTS	7. Taxi RPM800 – 1000RPM
13. BATT S AmpsCHECK -Ve Amps	8. InstrumentsCHECK in TURNS
14. St By Batt AnnunciatorSHOWN	Left/Right Turn :- Compass & HIS
15. Fuel Selector Valve BOTH 16. Fuel Shut Off Valve Push Full IN	Decrease / Increase in Hdg, A/H No Bank
17. Alternate Air Door	TSI Skidding Turn
18. Request START UPCall ATC	BEFORE TAKE-OFF
19. HEADSETREMOVE	1. Taxi, Landing lightOFF
1). HEADOLTKENIO VE	2. Parking Brakes SET
ENGINE START (BATTERY ONLY)	3. Seat & Seat BeltsERECT & CORRECT
1. Throttle LeverOpen ¼ Inch	4. Cabin DoorsCLOSED & LOCKED
2. Mixture ControlIDLE CUTOFF	5. Flight ControlsFREE & CORRECT
3. Area Aircraft / PropCLEAR	6. Flight Instruments (PFD) No Red Xs
4. Master Switch (Alt & Bat) ON	7. Altimeters ( PFD Baro & St By )SET
5. Beacon LightON	8. G1000 ALT SEL SET
6. Cold Start	9. Stand By Flt InstrumentsCHECK
a. Fuel PumpON	10. Fuel Quantity (L & R)CHECK
b. Mixture ControlFull RICH (3-5 Sec)	11. Mixture ControlRICH
c. MixtureIDLE Cut-off	12. Fuel SelectorBOTH
d. Fuel PumpOFF	13. TrimSET for TAKE-OFF
7. MagnetosR-L-BOTH-START	14. Throttle Control1800RPM
8. Mixture Control Advance smoothly rich	a. MAGNETOS DROPCHECK
9. Oil Pressure in 30 to 60 secGREEN	(RPM drop should not exceed 175RPM on
10. AMPS (M BATT & BATT S)POSITIVE	either magneto or 50 RPM differential be-
11. LOW VOLTS AnnunciatorNOT SHOWN	tween magnetos)
12. NAV LightON	b. VAC IndicatorCHECK
13. Avionics BUS 1 & BUS 2ON	c. Engine IndicatorsCHECK
14. FLAPSRETRACT FULLY	d. Ammeters & VoltmetersCHECK
15. COMM 02 Only	15. Static RPMCHECK 2300-2400
16. SpeakerON	16. AnnunciatorsAll OFF
17. NAV FrequenciesSET	17. Throttle ControlCHECK IDLE
18. MFDON, Dhana WPT SET	18. Throttle Control1000 RPM or less
19. G1000FLIGHT PLAN as Req	19. Throttle Control FrictionFinger Tight
20. MENUManual Brightness to 1%	20. COMM 01 OnlyVOL 71%
WARM UP	21. SPEAKEROFF
1. Check Idle RPM675-700 RPM	22. NAV FrequenciesVERIFY
2. If $< 675$ RPM1000 RPM for 2MIN	23. G1000 FLT PLANCHECK
3. Oil TempGreen	24. CDI SoftkeySELECT NAV Source         25. XPDR



26. Cabin Power 12V SwitchOFF 27. Flaps(Check Visually)10° 28. Cabin WindowsCLOSED & LOCKED 29. Take-Off BriefCOMPLETE 30. Landing & Taxi lightsON  LINE UP (Memory Item) 1. Line Up PermissionReceived	HASELL CHECKS (Memory Item) H Height - 5000 Ft(Sufficient for Recovery) A Airframe - Clean or Flaps - As Reqd S Security - No Loose Articles - Seatbelts Secure E Engine - EIS GREEN
<ol> <li>Strobe Lights</li></ol>	Fuel - Sufficient, flow  L Location - Allotted Training Area - Orientation Point  L - LOOKOUT. Clear of  C - Clouds  H - High Terrain  A - Aircraft
TAKE-OFF (Memory Item)  1. Take-Off PermissionReceived  2. Departure BriefGiven  3. Landing lightON	P – Populated & Prohibited Area <b>LOOKOUT</b> Checks can be done in a 180° Turn  OR in Two 90° Turns
<ol> <li>Hold Aircraft on BrakesRPM 1800</li> <li>Take-Off Path ClearRelease Brakes</li> <li>FULL POWER, 55 KtsGet Airborne</li> </ol>	REJOIN CHECKS (Memory Item)  B Briefing- Re-join briefing done  R Radio - Radio NAV Aids - SET  Rejoin Permission - Received
AFTER TAKE-OFF (Memory Item)  1. Safely AirborneBrakes ON & OFF  2. 200 Ft , LLOFF  3. 300 Ft+Ve ROC, SP> 65 kts, Flaps UP	<ul> <li>I Instruments - Altimeter &amp; Baro -QNH Set</li> <li>Ammeters - Charging</li> <li>Annunciators - OFF</li> <li>E Engine - Power as desired</li> </ul>
CLIMB (Memory Item)  1. Speed	Mixture RICH for Max RPM Mixture Full RICH < 3000ft  F Fuel - Contents, Flow, Selector - Both  PRE- LANDING (Memory Item)
CRUISE (Memory Item) 2100-2700 RPM C Compass Check Heading L LogMade E Engine — Mixture Lean EIS, Monitor Fuel Sufficient, A Altimeter Set Ammeters Charging Annunciators OFF R Radios — Comm & Nav Freq SET	1. FLT Instruments       Check QNH set         2. Mixture Control       RICH         3. Flaps       10°         4. Fuel Selector       Both         5. Brakes       On/Off         6. Seat Belts       Secure         BASE or LONG FINAL(Memory Item)         1. Landing Light       ON         2. Flaps       20°         3. Speed       75Kts



FI	NAL (Memory Item)	<b>HAT Check</b>		
1.	Landing ClearanceReceived	Н	-	Heading
2.	FlapsAs Required			
3.	Speed70Kts	$\mathbf{A}$	-	Altitude
AF	TER LANDING (Memory Item)	T	-	Timer
1.	FlapsUP			
2.	XPDR2000	5T Check		
3.	Non-Essential ElectricsOFF	T	-	Twist
4.	Throttle Friction ControlLoosen			
		T	-	Turn
EN	GINE SHUT DOWN			
1.	Parking BrakeSET	T	-	Timer
2.	Throttle ControlIDLE			
3.	Electrical EqptOFF	T	-	Thrust
4.	Avionics BUS 1 & BUS 2OFF			
5.	Mixture ControlIDLE Cut-off	T	-	Talk
6.	MagnetosOFF			
7.	Master Switch(Alt & Bat)OFF	SHORAT		
8.	St By BattOFF			
9.	Fuel SelectorLeft/Right	S	-	Select Attitude
10	. Engine Hrs & HobbsNoted			
		Но	-	Hold Attitude
Cma	anda V. 55 Vta	R	-	Refer
Spe	eeds: $V_R - 55$ Kts	1		Performance Instruments
	$V_Y - 74 \text{ Kts}$			
		A	-	Adjust Attitude
	$V_X - 67 \text{ Kts}$			
	Vs - 40/48  Kts	T	-	Trim
	V 5 - 40/40 IXts			
	$V_{FE}$ – 85/110 Kts			
	N. 100 K.			
	V <sub>NO</sub> – 129 Kts			
	<b>V</b> <sub>NE</sub> – 163 Kts			
	7 "7/ESS " / ESS " "			



ENGINE FAILURE AFTER TAKE-OFF	3. Airspeed		
1. Airspeed70/65 Kts (flaps Up/Down)	4. Wing Flaps		
2. Mixture ControlIDLE Cut-Off	5. Selected FieldFLY OVER		
3. Fuel Shut-off ValveCLOSED	(noting terrain and obstructions)		
4. Magneto switchOFF	6. Wing FlapsFULL (on final approach)		
5. Wing flapsAS REQUIRED	7. Airspeed		
6. Standby BatteryOFF	8. STBY BATT SwitchOFF		
7. Master Switch(Alt & Batt)OFF	(when landing assured)		
8. Cabin DoorUnlatched			
	10. DoorsUNLATCH prior to touchdown		
ENGINE FAILURE DURING FLIGHT	11. TouchdownSLIGHTLY TAIL LOW		
1. Airspeed68Kts	12. Mixture ControlIdle Cut-Off (pull full out)		
2. Fuel Shut-off ValvePUSH FULL IN	13. MAGNETOS SwitchOFF		
3. Fuel SelectorBOTH	14. BrakesAPPLY HEAVILY		
4. Electrical Fuel PumpON			
5. Mixture ControlRICH	ENGINE FIRE DURING START ON		
6. If StartedContinue the Flight	GROUND		
7. LandAs soon as Practical	1. MAGNETOS Switch – START		
	(continue cranking to start the engine)		
RESTART AFTER ENGINE FAILURE	IF ENGINE STARTS		
1. Airspeed	2. Power1800 RPM (for a few minutes)		
2. Fuel Shut-off ValvePush Full In	3. EngineSHUTDOWN (inspect for damage)		
3. Fuel SelectorBOTH	IF ENGINE FAILS TO START		
4. Electrical Fuel PumpON	2. Throttle ControlFULL (push full in)		
5. Mixture ControlRICH	3. Mixture ControlIdle cut-off (pull full out)		
6. Magnetos SwitchBOTH	4. MAGNETOS SwitchSTART		
(Start the engine if propeller stopped wind-	(continue cranking)		
	`		
milling due low speed )	5. FUEL SHUTOFF ValveOFF (pull full out)		
milling due low speed ) 7. Electrical Fuel PumpOFF	5. FUEL SHUTOFF ValveOFF (pull full out) 6. FUEL PUMP SwitchOFF		
milling due low speed )	5. FUEL SHUTOFF ValveOFF (pull full out) 6. FUEL PUMP SwitchOFF 7. MAGNETOS SwitchOFF		
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milling due low speed ) 7. Electrical Fuel Pump	5. FUEL SHUTOFF ValveOFF (pull full out) 6. FUEL PUMP SwitchOFF 7. MAGNETOS SwitchOFF 8. STBY BATT SwitchOFF 9. MASTER Switch (Alt and Bat)OFF 10. EngineSECURE 11. Parking BrakeRELEASE 12. Fire ExtinguisherOBTAIN (have ground attendants obtain if not installed) 13. AirplaneEVACUATE 14. FireEXTINGUISH (using fire extinguisher, wool blanket, or dirt) 15. Fire DamageINSPECT (repair or replace damaged components and/or wiring before conducting another flight)  ENGINE FIRE IN FLIGHT 1. Mixture ControlIdle Cut-Off (pull full out) 2. FUEL SHUTOFF ValveOFF (pull full out) 3. FUEL PUMP SwitchOFF		
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7. Airspeed
ELECTRICAL FIRE IN FLIGHT  1. STBY BATT Switch
CABIN FIRE  1. STBY BATT Switch
WING FIRE  1. LAND and TAXI Light SwitchesOFF 2. NAV Light SwitchOFF 3. STROBE Light SwitchOFF 4. PITOT HEAT SwitchOFF 5. To keep flames awayPerform Sideslip 6. Land as soon as possible
LANDING WITH A FLAT MAIN TIRE  1. ApproachNORMAL  2. Wing FlapsFULL

- 3. Touchdown......GOOD MAIN TIRE FIRST (hold airplane off flat tire as long as possible with aileron control)

  4. Directional Control

  MAINTAIN
- 4. Directional Control......MAINTAIN (using brake on good wheel as required)

#### LANDING WITH A FLAT NOSE TIRE

- 3. Touchdown......ON MAINS (hold nosewheel off the ground as long as possible)
- 4. When nosewheel touches down, maintain full up elevator as airplane slows to stop.